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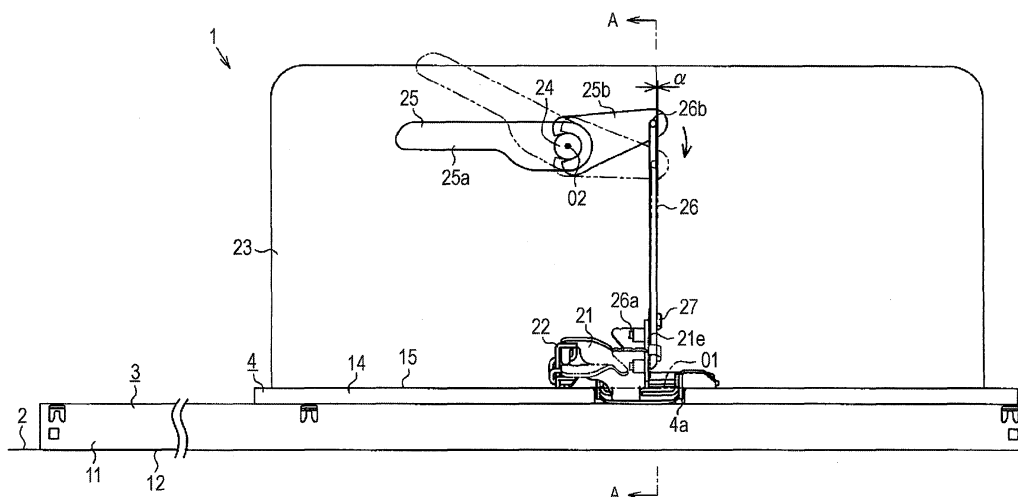
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(54) **Vehicle seat sliding apparatus**

(57) A vehicle seat sliding apparatus having a lower rail adapted to be fixed to a vehicle floor and an upper rail adapted to be fixed to a seat and connected to the lower rail so as to be movable with respect to the lower rail includes: a lock lever (21) adapted to be connected rotatably to the upper rail and engaged with the lower rail for selectively restricting the movement of the upper rail with respect to the lower rail; an operating lever (25) adapted to be connected rotatably to a supporting brack-

et (23) adapted to support the operating lever in the direction of rotation different from the direction of rotation of the lock lever above the lock lever; and a connecting rod (26) adapted to be connected at one end and the other end directly to the lock lever and the operating lever respectively, and adapted to transmit an operating force to release restriction of the movement with respect to the lock lever by a pressing operation in association with the rotation of the operating lever.

FIG.1





EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 1 431 104 A2 (FUJI KIKO KK [JP]) 23 June 2004 (2004-06-23) * paragraph [0066] - paragraph [0069]; figures 7,10,11 *	1-3	INV. B60N2/08
X,P	US 2009/050772 A1 (YAMADA YUKIFUMI [JP] ET AL) 26 February 2009 (2009-02-26) * figures 1-3 *	1-3	
X	US 6 341 819 B1 (KOJIMA YASUHIRO [JP] ET AL) 29 January 2002 (2002-01-29) * paragraph [0031]; figure 9 *	1-3	
X	US 2004/113477 A1 (KOJIMA YASUHIRO [JP]) 17 June 2004 (2004-06-17) * paragraph [0027]; figure 3 *	1-3	
			TECHNICAL FIELDS SEARCHED (IPC)
			B60N
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 8 September 2010	Examiner Schneider, Josef
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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08-09-2010

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1431104	A2	23-06-2004	CN 1513695 A	21-07-2004
			KR 20040055662 A	26-06-2004
			US 2004124683 A1	01-07-2004

US 2009050772	A1	26-02-2009	JP 2007126037 A	24-05-2007
			WO 2007052596 A1	10-05-2007

US 6341819	B1	29-01-2002	DE 19962653 A1	06-07-2000
			FR 2787749 A1	30-06-2000
			JP 4120078 B2	16-07-2008
			JP 2000190760 A	11-07-2000

US 2004113477	A1	17-06-2004	CN 1506245 A	23-06-2004
			DE 10345479 A1	17-06-2004
			JP 4151366 B2	17-09-2008
			JP 2004122799 A	22-04-2004
